

## ON THE WEIGHTS OF SOME AUSTRALIAN MAMMALS

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At the suggestion of Professor J. B. Cleland, whose researches into the alimentation of aboriginal man in this country have now entered upon a gravimetric phase, I herewith record the weight of some eighty-eight species and subspecies of mammals of Australian occurrence.

The published data on this head is scanty and of doubtful value. It has been chiefly derived from the statements of bushmen and other rural observers, whose approach to the matter is sometimes tinged by that frivolity which, in the ichthyological field, has become proverbial. Even when the intention is of the best, the weights so derived are usually of the "estimated" variety, and though supposed ability in the difficult feat of estimating weights is often a matter of pride, some gross errors have been introduced in this way.

All weights quoted in the sequel have been personally determined by the writer in the field with the balance, upon recently killed animals, and are recorded in grammes and kilos.<sup>(1)</sup>

It is not proposed here to discuss fully the scientific value of body weight as a character in the descriptive treatment of mammals, except to remark that its value and appropriateness in a general account of an animal is so great as to lift it almost to the rank of a descriptive necessity. No other quantitative datum conveys so easily an impression of general bulk, and in conjunction with linear dimensions its graphic value in illustrating differences of body build in different species, or of sexual dimorphism in the same species, is very great.

On the other hand, its almost universal neglect by taxonomists is not without sound reason, owing, in the first place, to the great difficulty of adequately correlating body weight with growth phase without a much more intimate acquaintance of the animal in life than falls to most systematic writers. In many marsupials also, concordant criteria of maturity as derived from epiphyseal condition in the skeleton, cranial sutures, and dental phase, do not correspond with the maximum values for either linear dimensions or body weight, and the latter may either markedly increase or diminish after skeletal or dental maturity is attained. A second difficulty arises from the massive error introduced into the observed weight by unascertained variations in the weight of the stomach contents, particularly in large herbivores; and a third, from the influence of climatic, seasonal and general ecological factors, which cannot be brought under statistical control as geographic or other racial variation.

In the list which follows, species have been treated on as wide a geographical basis as the field data allowed, but the use of trinomials has been limited for the most part to cases where the differentiation is marked, or at least has been fully defined. Several growth stages have been included, wherever possible, and the terms immature, subadult, adult, and aged, which

(1) To the main body of the data I have subsequently added approximate values for a few species of exceptional interest, where weights of freshly killed animals were not available. These values were obtained by weighing preserved material of known history and correcting the result with a modulus of dehydration, extracted from the loss of weight undergone by similar specimens weighed fresh in the field and submitted to the same process of preservation for the same length of time. These citations are differentiated as "approx."

are appended to each citation, are chosen after a consideration of the criteria named above and are subject to the limitations there noted. In most cases these terms have been further amplified by the addition of the head and body length in millimetres. The maximum weight found in the field for the adult of each species has always been included in the citation, but this does not necessarily mean that much higher weights may not be reached.

Finally, it is desired to emphasise that though each individual observation is accurate, the body of data which is collectively represented by them is of an interim and tentative character only, and is here assembled to meet a general or popular want, rather than a systematic one. In its present form it is quite inadequate for (as an example) the resolution of problems of specific, still less of subspecific, identity.

Fuller data will be provided in monographic treatment of many of the species here mentioned, and some already so dealt with may be traced in the list of references.

### MONOTREMATA

#### *Ornithorhynchus anatinus* Shaw

- (a) Olangolah Creek, Otway Peninsula, Victoria; imm. ♀; H. and B. 311 mm.; wt. 900 g.
- (b) Macquarie River, East Tasmania; subad. ♀; H. and B. 382 mm.; wt. 1.36 kg.
- (c) Murray River, South Australia; ad. ♂; H. and B. 504 mm.; wt. 2.75 kg.

#### *Echidna aculeata* Shaw

- (a) Yavan Creek, Tumut district, New South Wales; ♂; H. and B. 470 mm.; wt. 2.72 kg.
- (b) Olangolah Creek, Otway Peninsula, Victoria; imm. ♂; H. and B. 406 mm.; wt. 1.82 kg.
- (c) Heathmere district, West Victoria; ad. ♂; H. and B. 530 mm.; wt. 5.90 kg.
- (d) Flinders Island, Bass Strait, Tasmania; ♀; H. and B. 450 mm.; wt. 3.64 kg.
- (e) Arthur River, West Tasmania; ♀; H. and B. 500 mm.; wt. 4.32 kg.
- (f) Macquarie River, East Tasmania; ♂; H. and B. 485 mm.; wt. 3.19 kg.
- (g) James Range, Central Australia; ♂; H. and B. 468 mm.; wt. 2.50 kg.
- (h) Koorunga, Mid-north South Australia; wt. 2.61 kg.

### MARSUPIALIA

#### DASYURIDAE

#### *Sminthopsis crassicaudata crassicaudata* Gould

- (a) Moutajup, Grampian Range area, West Victoria; ad. ♀; H. and B. 82 mm.; wt. 11 g.
- (b) Murray Mallee, South Australia; ad. ♂; H. and B. 84 mm.; wt. 15 g.
- (c) *Ibid.*; ad. ♀; H. and B. 84 mm.; wt. 14 g.

#### *Sminthopsis crassicaudata centralis* Thomas (1)

- (a) West of Appamunna, Lower Diamantina River, South Australia; ad. ♀; H. and B. 83 mm.; wt. 10 g.

#### *Sminthopsis leucopus* Gray

- (a) Heathmere, West Victoria; ad. ♂; H. and B. 98 mm.; wt. 32 g.

*Antechinomys spenceri* Thomas

- (a) East of Erliwunyawunya, Musgrave Range, North-West South Australia; imm. ♀; H. and B. 85 mm.; wt. 14 g.

*Chaetocercus cristicauda* Krefft

- (a) Chundrinna, Everard Range, North-West South Australia; subad. ♀; H. and B. 133 mm.; wt. 68 g.  
 (b) *Ibid.*; ad. ♂; H. and B. 160 mm.; wt. 122 g.  
 (c) South of Koonapandi, Musgrave Range, North-West South Australia; subad. ♀; H. and B. 130 mm.; wt. 60 g.

*Chaetocercus cristicauda hillieri* Thomas (2)

- (a) Cooncheri, Lower Diamantina River, South Australia; ad. ♂; H. and B. 190 mm.; wt. 175 g.

*Phascogale flavipes* Waterhouse

- (a) Waitpinga, Fleurieu Peninsula, South Australia; ad. ♂; H. and B. 112 mm.; wt. 49 g.  
 (b) *Ibid.*; ad. ♀; H. and B. 104 mm.; wt. 24 g.  
 (c) Mackenzie Creek, Grampian Range, West Victoria; imm. ♂; H. and B. 93 mm.; wt. 23.5 g.

*Dasyurus viverrinus* Shaw

- (a) Cradle Valley, North-west Tasmania; subad. ♀; H. and B. 298 mm.; wt. 690 g.  
 (b) North Macquarie River, East Tasmania; ad. ♂; H. and B. 350 mm.; wt. 1.37 kg.  
 (c) Tooms Lake, East Tasmania; ad. ♂ (melan.); H. and B. 355 mm.; wt. 1.37 kg.

*Dasyurus geoffroyi* Gould

- (a) Chundrinna, Everard Range, North-West South Australia; ad. ♀; H. and B. 290 mm.; wt. 550 g.

*Dasyurus maculatus* Kerr

- (a) Welcome River, North-west Tasmania; imm. ♂; H. and B. 425 mm.; wt. 1.60 kg.  
 (b) *Ibid.*; ad. ♀; H. and B. 564 mm.; wt. 2.04 kg.  
 (c) Cradle Valley, North-west Tasmania; ad. ♂; H. and B. 500 mm.; wt. 2.96 kg.

*Sarcophilus harrissi* Boitard

- (a) Welcome River, North-west Tasmania; imm. ♀; H. and B. 442 mm.; wt. 2.50 kg.  
 (b) Arthur River, West Tasmania; imm. ♂; H. and B. 415 mm.; wt. 3.23 kg.  
 (c) *Ibid.*; ad. ♀; H. and B. 550 mm.; 4.09 kg.  
 (d) *Ibid.*; ad. ♂; H. and B. 615 mm.; 8.67 kg.

*Myrmecobius fasciatus fasciatus* Waterhouse

- (a) Narrogin, South-west district Western Australia; ad. ♂; H. and B. 242 mm.; wt. 293 g. (approx.).

*Myrmecobius fasciatus rufus* Wood Jones (3)

- (a) Oolarinna, Everard Range, South Australia; ad. ♀; H. and B. 262 mm.; wt. 347 g. (approx.).

## PERAMELIDAE

*Perameles gunni* Gray

- (a) Ross, East Tasmania; subad. ♀; H. and B. 299 mm.; wt. 450 g.
- (b) Dunkeld, West Victoria; ad. ♀; H. and B. 313 mm.; wt. 550 g.

*Isoodon auratus* Ramsay

- Pundi, 70 miles west of Everard Range, North-west South Australia; subad. ♂; H. and B. 235 mm.; wt. 260 g.

*Isoodon obesulus* Shaw

- (a) West Sister Island, Bass Strait, Tasmania; ad. ♂; H. and B. 338 mm.; wt. 1.36 kg.
- (b) Blue Hill, Bothwell district, Tasmania; ad. ♂; H. and B. 357 mm.; wt. 1.36 kg.
- (c) *Ibid.*; ad. ♀; H. and B. 355 mm.; wt. 1.13 kg.

*Thalacomys lagotis* Reid

- (a) Kings Creek, George Gill Range, Central Australia; ad. ♀; H. and B. 335 mm.; wt. 1.37 kg.
- (b) Ewellina, Musgrave Range, North-west South Australia; ad. ♂; H. and B. 428 mm.; wt. 1.70 kg.
- (c) *Ibid.*; imm. ♂; H. and B. 268 mm.; wt. 450 g.

*Thalacomys lagotis sagitta* Thomas (4)

- (a) Goyder's Lagoon, Lower Diamantina River, South Australia; aged ♂; H. and B. 385 mm.; wt. 1.56 kg.
- (b) *Ibid.*; ad. ♀; H. and B. 291 mm.; wt. 660 g.
- (c) *Ibid.*; imm. ♂; H. and B. 212 mm.; wt. 210 g.

*Thalacomys minor misclicus* Finlayson (5) (6)

- (a) Cooncheri, Lower Diamantina River, South Australia; ad. ♂; H. and B. 241 mm.; wt. 435 g.
- (b) *Ibid.*; ad. ♀; H. and B. 247 mm.; wt. 312 g.
- (c) *Ibid.*; imm. ♂; H. and B. 193 mm.; wt. 212 g.

*Choeropus castanotis* Gray

- (a) Macdonnell Range, Central Australia; imm. ♀; H. and B. 165 mm.; wt. 153 g. (approx.).

*Notoryctes typhlops* Stirling

- (a) Ooldea district, South Australia; ad. ♀; H. and B. 114 mm.; wt. 66 g. (approx.).
- (b) Liddle's Hills, Bascow Range area, Central Australia; H. and B. 120 mm.; wt. 71 g. (approx.).

*Notoryctes typhlops caurinus* Thomas

- Sturt Creek, Kimberley Division, Western Australia; imm. ♂; H. and B. 94 mm.; wt. 47 g. (approx.).

## PHALANGERIDAE

*Acrobates pygmaeus* Shaw (7)

- (a) Coomooboolaroo, Dawson Valley, Queensland; ad. ♂; H. and B. 75 mm.; wt. 14 g. (approx.).
- (b) Fitzroy River, Rockhampton district, Queensland; ad. ♀; H. and B. 73 mm.; wt. 12 g. (approx.).

*Dromicia concinna* Gould

- (a) Heathmere, West Victoria; ad. ♀; H. and B. 91 mm.; wt. 21.5 g.
- (b) Meningie, Lake Alexandrina, South Australia; ad. ♂; H. and B. 81 mm.; wt. 19 g.
- (c) Torrensvalle, Fleurieu Peninsula, South Australia; ad. ♀; H. and B. 77 mm.; wt. 16 g.

*Petaurus breviceps* Waterhouse (8)

- (a) Penola, South-East district, South Australia; ad. ♂; H. and B. 163 mm.; wt. 130 g.
- (b) *Ibid.*; aged ♀; wt. 90 g.

*Trichosurus vulpecula* Kerr

- (a) Cradle Valley, North-west Tasmania; ad. ♀ (grey phase); H. and B. 495 mm.; wt. 4.10 kg.
- (b) *Ibid.*; imm. ♂ (grey phase); H. and B. 400 mm.; wt. 1.81 kg.
- (c) Gorae, West Victoria; ad. ♂; H. and B. 546 mm.; wt. 3.63 kg.
- (d) Heathmere, West Victoria; subad. ♀; H. and B. 362 mm.; wt. 1.75 kg.
- (e) Pecaree, South-East district of South Australia; ad. ♂; H. and B. 440 mm.; wt. 3.07 kg.
- (f) A garden, Adelaide, South Australia; subad. ♂; H. and B. 405 mm.; wt. 1.75 kg.
- (g) Palana, Flinders Island, Bass Strait, Tasmania; ad. ♀; H. and B. 502 mm.; wt. 4.09 kg.
- (h) Choorlabinna, Musgrave Range, North-west South Australia; ad. ♂; H. and B. 390 mm.; wt. 1.37 kg.
- (i) Eewellina, Musgrave Range, North-west South Australia; ad. ♀; H. and B. 372 mm.; wt. 1.48 kg.
- (j) Wollara, Basedow Range area, Central Australia; subad. ♂; H. and B. 313 mm.; wt. 910 g.
- (k) Thangool, Callide Valley, Queensland; subad. ♀; H. and B. 410 mm.; wt. 1.36 kg. (9).

*Trichosurus caninus* Ogilby

- (a) Upper Ryan's Creek, North-east Victoria; ad. ♀; H. and B. 508 mm.; wt. 2.73 kg.
- (b) *Ibid.*; subad. ♂; H. and B. 476 mm.; wt. 2.16 kg.

*Petauroides volans volans* Kerr (10)

- (a) Green Hills Forest, Batlow district, New South Wales; ad. ♀; H. and B. 440 mm.; wt. 1.36 kg.
- (b) *Ibid.*; subad. ♂; H. and B. 415 mm.; wt. 1.02 kg.

*Pseudochirus laniginosus* Gould

- (a) Hatherleigh, South-East district, South Australia; ad. ♂; H. and B. 305 mm.; wt. 800 g.
- (b) *Ibid.*; ad. ♀; H. and B. 318 mm.; wt. 800 g.
- (c) Glencorrie, Fleurieu Peninsula, South Australia; imm. ♂; H. and B. 161 mm.; wt. 140 g.
- (d) A garden, Adelaide, South Australia; subad. ♂; H. and B. 270 mm.; wt. 550 g.

- (e) Williamstown, North Mount Lofty Range, South Australia; ad. ♂; H. and B. 300 mm.; wt. 700 g.
- (f) Penrice, Lower North district, South Australia; ad. ♀; H. and B. 310 mm.; wt. 700 g.

*Pseudochirus cooki* Desmarest

- (a) Blue Hills, Bothwell, Tasmania; ad. ♀; H. and B. 357 mm.; wt. 1.36 kg.
- (b) Macquarie River, East Tasmania; imm. ♂; H. and B. 290 mm.; wt. 570 g.
- (c) *Ibid.*; subad. ♀; H. and B. 325 mm.; wt. 900 g.

*Phascolarctos cinereus adustus* Thomas (11)

- (a) Kariboe Creek, Callide Valley, Queensland; aged ♂; H. and B. 665 mm.; wt. 6.36 kg.
- (b) Coomoooolaroo, Dawson Valley, Queensland; aged ♀; H. and B. 635 mm.; wt. 5.45 kg.

*Phascolarctos cinereus victor* Troughton (12)

- (a) French Island, Westernport Bay, Victoria; ad. ♂; H. and B. 830 mm.; wt. 14.09 kg.
- (b) *Ibid.*; ad. ♀; H. and B. 730 mm.; wt. 8.82 kg.
- (c) *Ibid.*; imm. ♂; H. and B. 673 mm.; wt. 7.27 kg.

*Tarsipes rostratus* Gervais and Verreaux

- (a) South-west Western Australia; ad. ♂; H. and B. 78 mm.; wt. 13 g. (approx.).
- (b) *Ibid.*; ad. ♀; H. and B. 81 mm.; wt. 17 g. (approx.).

## MACROFODIDAE

*Hypsiprymnodon moschatus* Ramsay

- (a) Gorge Range, Ingham district, North Queensland; ad. ♂; H. and B. 325 mm.; wt. 500 g. (approx.).

*Potorous tridactylus* Kerr

- (a) Upper Macquarie River, East Tasmania; ad. ♂; H. and B. 385 mm.; wt. 1.81 kg.
- (b) Blue Hills, Bothwell, Tasmania; ad. ♀; H. and B. 350 mm.; wt. 1.36 kg.
- (c) *Ibid.*; imm. ♂; H. and B. 305 mm.; wt. 950 g.
- (d) Gorae, West Victoria; imm. ♂; H. and B. 305 mm.; wt. 690 g.
- (e) *Ibid.*; imm. ♂; H. and B. 336 mm.; wt. 950 g. (13).<sup>(2)</sup>

*Caloprymnus campestris* Gould (14) (15)

- (a) Cooncheri, Lower Diamantina River, South Australia; ad. ♀; H. and B. 277 mm.; wt. 1.06 kg.
- (b) *Ibid.*; subad. ♂; H. and B. 282 mm.; wt. 850 g.
- (c) *Ibid.*; imm. ♀; H. and B. 163 mm.; wt. 195 g.

*Bettongia lesueuri* Quoy and Gaimard

- (a) Yaringa, south-west of George Gill Range, Central Australia; subad. ♀; H. and B. 285 mm.; wt. 910 g.
- (b) Desolation Glen, Rawlinson Range, Western Australia; subad. ♀; H. and B. 245 mm.; wt. 770 g.

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<sup>(2)</sup> The weight formerly quoted (850 g.) was a typographical error.

*Bettongia cuniculus* Ogilby

- (a) Macquarie River, East Tasmania; ad. ♂; H. and B. 325 mm.; wt. 1.59 kg.

*Aepyprymnus rufescens* Gray (16)

- (a) Thangool, Callide Valley, Queensland; ad. ♂; H. and B. 383 mm.; wt. 2.50 kg.  
 (b) *Ibid.*; subad. ♀; H. and B. 387 mm.; wt. 3.19 kg.

*Lagorchestes hirsutus* Gould

- (a) South of Koonapandi, Musgrave Range area, North-west South Australia; ad. ♀; H. and B. 338 mm.; wt. 1.70 kg.  
 (b) *Ibid.*; subad. ♂; H. and B. 325 mm.; wt. 1.59 kg.  
 (c) Pundi, west of Everard Range, North-west South Australia; imm. ♂; H. and B. 200 mm.; wt. 275 g.

*Lagorchestes conspicillatus* Gould

- (a) Mareeni Plain, north of James Range, Central Australia; ad. ♀; H. and B. 400 mm.; wt. 3.00 kg.  
 (b) *Ibid.*; subad. ♂; H. and B. 400 mm.; wt. 3.00 kg.

*Petrogale penicillata herberti* Thomas (17)

- (a) Spring Creek, Taroom district, Queensland; ad. ♂; H. and B. 535 mm.; wt. 5.90 kg.  
 (b) *Ibid.*; subad. ♀; H. and B. 515 mm.; wt. 5.00 kg.

*Petrogale xanthopus* Gray

- (a) Oraparinna, Flinders Range, South Australia; ad. ♀; H. and B. 570 mm.; wt. 7.50 kg.  
 (b) *Ibid.*; subad. ♂; H. and B. 550 mm.; wt. 6.36 kg.  
 (c) Mount Norwest, Willouran Hills, South Australia; aged ♀; H. and B. 490 mm.; wt. 6.13 kg.

*Petrogale lateralis* Gould (18)

- (a) Erliwunyawunya, Musgrave Range, North-west South Australia; ad. ♂; H. and B. 498 mm.; wt. 5.00 kg.  
 (b) King's Creek, George Gill Range, Central Australia; subad. ♀; H. and B. 425 mm.; wt. 3.63 kg.  
 (c) Glen Edith, west of James Range, Central Australia; aged ♀; H. and B. 465 mm.; wt. 3.50 kg.

*Macropus (Thylogale) eugenii* Desmarest

- (a) Rocky River, Kangaroo Island, South Australia; imm. ♀; H. and B. 475 mm.; wt. 4.09 kg.  
 (b) *Ibid.*, subad. ♀; H. and B. 495 mm.; wt. 5.00 kg.  
 (c) *Ibid.*; ad. ♂; H. and B. 600 mm.; wt. 7.95 kg.

*Macropus (Thylogale) flindersi* Wood-Jones

- (a) Flinders Island, Eyre Peninsula, South Australia; ad. ♂; H. and B. 545 mm.; wt. 6.13 kg.  
 (b) *Ibid.*; ad. ♀; H. and B. 462 mm.; wt. 5.00 kg.

*Macropus (Thylogale) billardieri* Desmarest

- (a) West Sister Island, Bass Strait, Tasmania; ad. ♂; H. and B. 623 mm.; wt. 9.09 kg.

- (b) Flinders Island, Bass Strait, Tasmania; ad. ♀ H. and B. 570 mm.; wt. 7.50 kg.
- (c) Marcus River, North-west Tasmania; young ad. ♂; H. and B. 520 mm.; wt. 6.36 kg.
- (d) Macquarie River, East Tasmania; subad. ♀; H. and B. 442 mm.; wt. 3.18 kg.
- (e) Blue Hills, Bothwell, Tasmania (central); subad. ♂; H. and B. 427 mm.; wt. 2.72 kg.
- (f) Macquarie River, East Tasmania; imm. ♂; H. and B. 349 mm.; wt. 1.36 kg.

*Macropus (wallabia) ruficollis ruficollis* Desmarest (19)

- (a) Yavan Creek, Tumut district, New South Wales; imm. ♀; H. and B. 627 mm.; wt. 8.18 kg.
- (b) Heathmere, West Victoria; ad. ♂; H. and B. 785 mm.; wt. 24.09 kg.
- (c) Mount Abrupt, Grampian Range, Victoria; ad. ♀; H. and B. 685 mm.; wt. 13.63 kg.
- (d) Black Range, South-East district, South Australia; ad. ♂; H. and B. 703 mm.; wt. 16.81 kg.
- (e) Furner, South-East district, South Australia; ad. ♀; H. and B. 662 mm.; wt. 14.09 kg.

*Macropus (wallabia) ruficollis bennetti* Waterhouse

- (a) Macquarie River, East Tasmania; imm. ♀; H. and B. 545 mm.; wt. 5.90 kg.
- (b) Welcome River, North-west Tasmania; imm. ♀; H. and B. 620 mm.; wt. 9.09 kg.
- (c) Palana, Flinders Island, Bass Strait, Tasmania; imm. ♂; H. and B. 613 mm.; wt. 10.67 kg.
- (d) *Ibid.*; ad. ♀; H. and B. 655 mm.; wt. 14.09 kg.
- (e) Stanley Point, Flinders Island, Bass Strait, Tasmania; ad. ♂; H. and B. 770 mm.; wt. 24.54 kg.
- (f) Arthur River, West Tasmania; ad. ♂; H. and B. 740 mm.; wt. 22.72 kg.

*Macropus (wallabia) ualabatus ualabatus* Lesson and Garnot

- (a) Blunt's Gully; Ryan's Creek, North-east Victoria; aged ♂; H. and B. 800 mm.; wt. 18.18 kg.
- (b) Hillas Brook, Tumut district, New South Wales; ad. ♀; H. and B. 760 mm.; wt. 14.79 kg.
- (c) *Ibid.*; imm. ♂; H. and B. 500 mm.; wt. 4.31 kg.

*Macropus (wallabia) agilis* Gould (20)

- (a) Serpentine Creek, Rockhampton district, Queensland; subad. ♂; H. and B. 725 mm.; wt. 17.73 kg.
- (b) *Ibid.*; subad. ♀; H. and B. 643 mm.; wt. 12.27 kg.

*Macropus (wallabia) dorsalis* Gray (21)

- (a) Mount Lookerbie, Dawson Valley, Queensland; imm. ♀; H. and B. 450 mm.; wt. 3.18 kg.
- (b) *Ibid.*; imm. ♂; H. and B. 540 mm.; wt. 5.45 kg.
- (c) *Ibid.*; subad. ♂; H. and B. 570 mm.; wt. 7.73 kg.
- (d) Spring Creek, Upper Dawson Valley, Queensland; ad. ♂ 720 mm.; wt. 15.90 kg.



*Macropus (wallabia) greyi* Gray (22)

- (a) Clay Wells, South-East District, South Australia; aged ♀ (emaciated); H. and B. 648 mm.; wt. 5.97 kg.

*Macropus (wallabia) parryi* Bennett (23)

- (a) Drumburle, Grevillea Plateau, Queensland; ad. ♂; H. and B. 805 mm.; 22.72 kg.  
 (b) *Ibid.*; ad. ♀; H. and B. 790 mm.; 15.45 kg.  
 (c) *Ibid.*; imm. ♀; H. and B. 597 mm.; 8.64 kg.  
 (d) *Ibid.*; imm. ♀ (large pouch young); H. and B. 405 mm.; 1.82 kg.

*Macropus giganteus giganteus* Zimmermann (24)

- (a) Coomooboolaroo, Dawson Valley, Queensland; aged ♂; H. and B. 1,110 mm.; wt. 50.09 kg.  
 (b) Drumburle, Grevillea Plateau, Queensland; subad. ♀; H. and B. 835 mm.; wt. 22.70 kg.  
 (c) Yavan Creek, Tumut district, New South Wales; subad. ♂; H. and B. 950 mm.; wt. 30.90 kg.  
 (d) Gorae, West Victoria; imm. ♀; H. and B. 724 mm.; wt. 10.68 kg.  
 (e) Jimmy's Creek, Grampian Range, Victoria; subad. ♂; H. and B. 900 mm.; wt. 25.23 kg.

*Macropus giganteus melanops* Gould

- (a) Padthaway, South-East district, South Australia; imm. ♀; H. and B. 576 mm.; wt. 5.45 kg.  
 (b) Lake Wangary, Eyre Peninsula, South Australia; imm. ♂; H. and B. 850 mm.; wt. 20.90 kg.  
 (c) Coombe, Ninety Mile Plains, South Australia; subad. ♂; H. and B. 870 mm.; wt. 25.90 kg.  
 (d) Point Turton, Yorke Peninsula, South Australia; ad. ♂; H. and B. 1,055 mm.; wt. 46.82 kg.

*Macropus giganteus fuliginosus* Desmarest

- (a) Rocky River, Kangaroo Island, South Australia; ad. ♂; H. and B. 1,247 mm.; wt. 62.27 kg.  
 (b) *Ibid.*; ad. ♀; H. and B. 845 mm.; wt. 25.22 kg.

*Macropus giganteus tasmaniensis* Le Souef

- (a) Mount Morrison, Ross district, Tasmania; imm. ♂; H. and B. 775 mm.; wt. 18.18 kg.  
 (b) Quoin, Ross district, Tasmania; ad. ♀; H. and B. 835 mm.; wt. 22.74 kg.  
 (c) Little Tier, North Macquarie River, Tasmania; ad. ♂; H. and B. 970 mm.; wt. 43.18 kg.

*Macropus rufus* Desmarest (25)

- (a) Old Boolcoommatta, North-east of South Australia; aged ♂; H. and B. 1,397 mm.; wt. 77.27 kg.  
 (b) Tcherricoonunyi, Lower Diamantina River (25), South Australia; ad. ♀; H. and B. 970 mm.; wt. 33.18 kg.  
 (c) Donald's Well, Musgrave Range, South Australia; imm. ♂; H. and B. 880 mm.; wt. 20.04 kg.  
 (d) Wollara, Basedow Range area, Central Australia; imm. ♀; H. and B. 580 mm.; wt. 7.72 kg.

*Macropus robustus robustus* Gould (26)

- (a) Coomooboolaroo, Dawson Valley, Queensland; imm. ♀; H. and B. 570 mm.; wt. 6·81 kg.

*Macropus robustus erubescens* Selater

- (a) Mount Norwest, Willouran Hills, South Australia; ad. ♂; H. and B. 1,020 mm.; wt. 50·00 kg. (27).  
 (b) *Ibid.*; ad. ♀; H. and B. 800 mm.; wt. 22·72 kg.  
 (c) *Ibid.*; imm. ♂; H. and B. 740 mm.; wt. 15·68 kg.  
 (d) Oparinna, Flinders Range, South Australia; subad. ♂; H. and B. 970 mm.; wt. 37·73 kg.

*Macropus robustus woodwardi* Thomas

- (a) Deception Creek, James Range, Central Australia; ad. ♂; H. and B. 890 mm.; 40·22 kg.  
 (b) Ernabella, Musgrave Range, South Australia; imm. ♂; H. and B. 748 mm.; wt. 20·00 kg.  
 (c) *Ibid.*; imm. ♀; H. and B. 715 mm.; wt. 15·45 kg.  
 (d) Oparinna, Musgrave Range, South Australia; imm. ♂ (pouch young); H. and B. 355 mm.; wt. 909 g.

## PHASCOLOMYIDAE

*Phascolomys mitchelli* Owen

- (a) Hillas Brook, Tumut district, New South Wales; aged ♂; H. and B. 960 mm.; wt. 23·18 kg.  
 (b) Pecaree, South-East district, South Australia; subad. ♂; H. and B. 800 mm.; wt. 19·54 kg.  
 (c) *Ibid.*; subad. ♀; H. and B. 850 mm.; wt. 21·81 kg.

*Phascolomys ursinus* Shaw

- (a) Palana, Flinders Island, Bass Strait, Tasmania; ad. ♀; H. and B. 830 mm.; wt. 21·36 kg.  
 (b) *Ibid.*; ad. ♂; H. and B. 807 mm.; wt. 16·59 kg.  
 (c) *Ibid.*; imm. ♀; H. and B. 660 mm.; wt. 7·27 kg.

*Phascolomys tasmaniensis* Spencer and Kershaw

- (a) Cradle Valley, North-west Tasmania; ad. ♂; H. and B. 935 mm.; wt. 27·22 kg.  
 (b) *Ibid.*; ad. ♀; H. and B. 875 mm.; wt. 22·72 kg.  
 (c) Quoin, Ross district, Tasmania; subad. ♂; H. and B. 805 mm.; wt. 20·90 kg.  
 (d) Meadsfield, Bothwell, Tasmania; imm. ♀; H. and B. 695 mm.; wt. 9·77 kg.

*Lasiiorhinus latifrons* Owen.

- (a) Portee, River Murray, South Australia; ad. ♂; H. and B. 991 mm.; wt. 25·45 kg.  
 (b) *Ibid.*; ad. ♀; H. and B. 1,020 mm.; wt. 27·27 kg.

## MONODELPHIA

*Pteropus scapulatus* Peters

- (a) Coomooboolaroo, Dawson Valley, Queensland; ad. ♀; H. and B. 230 mm.; wt. 280 g. ca. (28).

- (b) Cape Kersaint, Kangaroo Island, South Australia; ad. ♂; H. and B. 190 mm.; 270 g.

*Arctocephalus cinereus* Peron

- (a) Outer Waldegrave Island, Eyre Peninsula, South Australia; imm. ♂; H. and B. 1,000 mm.; wt. 21.36 kg.

*Canis familiaris dingo* Blumenbach

- (a) Oparinna, Musgrave Range, South Australia; ad. ♂; H. and B. 870 mm.; 14.09 kg.  
(b) Ooleebinna, Musgrave Range, South Australia; ad. ♂; cranial length 211 mm.; wt. 16.36 kg.

*Vulpes vulpes* Linne

- (a) Oparinna, Flinders Range, South Australia; ad. ♀; H. and B. 550 mm.; wt. 6.16 kg.  
(b) Dashwood's Gully, Mount Lofty Range, South Australia; aged ♂; H. and B. 700 mm.; wt. 5.68 kg.

*Cervus (Dama) dama* Linne

- (a) Little Tier, North Macquarie River, Tasmania; imm. ♀ (feral); H. and B. 1,000 mm.; wt. 19.09 kg.

*Oryctolagus cuniculus* Linne

- (a) Moutajup, Grampian Range area, West Victoria; ad. ♂; H. and B. 495 mm.; wt. 1.75 kg.  
(b) Dashwood's Gully, Mount Lofty Range, South Australia; ad. ♂; H. and B. 465 mm.; wt. 2.16 kg.  
(c) Cooncheri, Lower Diamantina River, South Australia; imm. ♀; H. and B. 400 mm.; wt. 680 g.  
(d) Chundrinna, Everard Range, South Australia; ad. ♂; H. and B. 425 mm.; wt. 2.04 kg.  
(e) Spilsby Island, Spencer's Gulf, South Australia; ad. ♂; H. and B. 485 mm.; wt. 1.70 kg.

*Lepus europaeus* Linne

- (a) Julia Range, Lower North district, South Australia; ad. ♀; H. and B. 590 mm.; wt. 3.07 kg.  
(b) Point Turton, Yorke Peninsula, South Australia; ad. ♀; H. and B. 615 mm.; wt. 3.18 kg.

*Rattus villosissimus villosissimus* (Waite) (29)

- (a) Appamunna, Lower Diamantina River, South Australia; ad. ♂; H. and B. 188 mm.; wt. 185 g.  
(b) *Ibid.*; imm. ♂; H. and B. 140 mm.; wt. 90 g.  
(c) *Ibid.*; ad. ♀; H. and B. 195 mm.; wt. 175 g.

*Rattus greyi greyi* Gray

- (a) Callawonga Creek, Fleurieu Peninsula, South Australia; ad. ♂; H. and B. 139 mm.; wt. 82 g.  
(b) Boat Harbour Creek, Fleurieu Peninsula, South Australia; ad. ♂; H. and B. 157 mm.; wt. 112 g.  
(c) *Ibid.*; ad. ♀; H. and B. 139 mm.; wt. 90 g.  
(d) *Ibid.*; imm. ♀; H. and B. 122 mm.; wt. 51 g.

*Rattus greyi peccatus* (Troughton)

- (a) Heathmere, West Victoria; ad. ♀; H. and B. 159 mm.; wt. 100 g.
- (b) *Ibid.*; ad. ♂; H. and B. 169 mm.; wt. 130 g.

*Rattus lutreola lutreola* Gray (30)

- (a) Rat Island, Lake Alexandrina, South Australia; ad. ♂; H. and B. 173 mm.; wt. 190 g.
- (b) *Ibid.*; ad. ♀; H. and B. 178 mm.; wt. 190 g.
- (c) Wannon River, Yarram Gap, Grampian Range, Victoria; subad. ♀; 162 mm.; wt. 148 g.
- (d) Blackfellows Creek, Fleurieu Peninsula, South Australia; subad. ♂; H. and B. 156 mm.; wt. 130 g.
- (e) Heathmere, West Victoria; imm. ♀; H. and B. 134 mm.; wt. 70 g.
- (f) Mount Clay Range, West Victoria; imm. ♀; H. and B. 98 mm.; wt. 26 g.

*Rattus rattus rattus* Linne.

- (a) Mackenzie River, Grampian Range, Victoria; ad. ♀; H. and B. 179 mm.; wt. 168 g.

*Rattus rattus alexandrinus* Geoffroy

- (a) Jimmy's Creek, Grampian Range, Victoria; ad. ♂; H. and B. 189 mm.; wt. 178 g.
- (b) A garden, Adelaide, South Australia; ad. ♀; H. and B. 190 mm.; wt. 190 g.

*Rattus norvegicus* Erxleben

- (a) Meadsfield, Bothwell district, Tasmania; ad. ♂; H. and B. 262 mm.; wt. 445 g.
- (b) A garden, Adelaide, South Australia; subad. ♀; H. and B. 206 mm.; wt. 200 g.
- (c) *Ibid.*; imm. ♂; H. and B. 145 mm.; wt. 100 g.

*Mus musculus* Linne (31)

- (a) A house, Adelaide, South Australia; ad. ♂; H. and B. 83 mm.; wt. 19 g.
- (b) *Ibid.*; ad. ♀; H. and B. 86 mm.; wt. 22 g.
- (c) Boat Harbour Creek, Fleurieu Peninsula, South Australia; ♂; H. and B. 83 mm.; wt. 11.5 g.
- (d) Ernabella, Musgrave Range, South Australia; ad. ♂; H. and B. 80 mm.; wt. 9 g.

*Pseudomys (Pseudomys) higginsii* Trouessart (32)

- (a) Cradle Valley, North-west Tasmania; ad. ♂; H. and B. 132 mm.; wt. 75 g. (approx.).

*Pseudomys (Pseudomys) minnie* Troughton (33)

- (a) Appamunna, Lower Diamantina River, South Australia; aged ♂; H. and B. 131 mm.; wt. 80 g.
- (b) *Ibid.*; ad. ♀; H. and B. 134 mm.; wt. 75 g.
- (c) *Ibid.*; imm. ♂; H. and B. 115 mm.; wt. 44 g.

*Pseudomys (Thetomys) nanus* Gould (34)

- (a) Koonapandi, Musgrave Range, South Australia; ad. ♂; H. and B. 101 mm.; wt. 28.5 g.

*Pseudomys (Laggadina) hermannsburgensis hermannsburgensis* Waite (35)

- (a) Wollara, Basedow Range area, Central Australia; ad. ♂; H. and B. 74 mm.; wt. 14.5 g.
- (b) Ernabella, Musgrave Range, South Australia; ad. ♀; H. and B. 80 mm.; wt. 13 g.
- (c) Chundrinna, Everard Range area, South Australia; subad. ♀; H. and B. 71 mm. wt. 7.5 g.

*Pseudomys (Gyomys) apodemoides* Finlayson (36-37)

- (a) Coombe, Ninety Mile Plains, South Australia; ad. ♂; H. and B. 86 mm.; wt. 16 g.
- (b) *Ibid.*; ad. ♀; H. and B. 93 mm.; wt. 18 g.
- (c) *Ibid.*; imm. ♂; H. and B. 70 mm.; wt. 9 g.

*Mastacomys fuscus* Thomas (38)

- (a) Cradle Valley, North-west Tasmania; ad. ♀; H. and B. 168 mm.; wt. 160 g. (approx.).

*Hydromys chrysogaster fulvolavatus* Gould

- (a) Fulham, Torrens Creek, South Australia; ad. ♂; H. and B. 343 mm.; wt. 985 g.
- (b) *Ibid.*; ad. ♀; H. and B. 310 mm.; wt. 700 g.
- (c) Mosquito Creek, South-East district, South Australia; imm. ♂; H. and B. 292 mm.; wt. 390 g.
- (d) Furner, South-East district, South Australia; imm. ♀; H. and B. 293 mm.; wt. 425 g.

*Hydromys chrysogaster* var. (39)

- (a) Innamincka, Barcoo River, South Australia; ad. ♀; H. and B., 355 mm.; wt. 500 g.

## LIST OF REFERENCES

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